

In the Claims

1. (Currently Amended) A flame-resistant polymer that is soluble in a polar organic solvent and is denatured with an amine compound and made flame resistant with an oxidizing agent, wherein a precursor of the flame-resistant polymer is an acrylonitrile polymer.

2. (Cancelled)

3. (Currently Amended) A flame-resistant polymer-containing solution containing a flame-resistant polymer and a polar organic solvent, wherein the flame-resistant polymer is denatured with an amine compound and is obtained by using an acrylonitrile polymer as a precursor and made flame resistant with an oxidizing agent.

4. (Original) The flame-resistant polymer-containing solution according to Claim 3, wherein the polar organic solvent is an amine organic solvent.

5. (Previously Presented) The flame-resistant polymer-containing solution according to Claim 3, wherein the polar organic solvent is an amine compound having two or more functional groups.

6-7. (Cancelled)

8. (Previously Presented) The flame-resistant polymer-containing solution according to Claim 3, wherein a concentration of the flame-resistant polymer calculated by the following expression is 2 to 70% by weight:

$$\text{(flame-resistant polymer concentration (\% by weight))} = 100 \times \frac{\text{(flame-resistant polymer weight (g))}}{\text{(flame-resistant polymer-containing solution weight (g))}}$$

where flame-resistant polymer weight indicates weight of solid component remaining in heating the flame-resistant polymer-containing solution in nitrogen at a rate of 50°C/minute up to 300°C.

9. (Currently Amended) A method for manufacturing a flame-resistant polymer-containing solution containing a flame-resistant polymer and a polar organic solvent, characterized by making a precursor of the flame-resistant polymer flame-resistant in an amine organic solvent or the polar organic solvent containing an amine compound and being made flame resistant with an oxidizing agent.

10. (Currently Amended) A method for manufacturing a flame-resistant polymer-containing solution containing a flame-resistant polymer and a polar organic solvent, characterized by dissolving the flame-resistant polymer in an amine organic solvent or the polar organic solvent containing an amine compound and made flame resistant with an oxidizing agent.

11. (Currently Amended) A flame-resistant formed product comprising a part or the whole thereof composed of a flame-resistant polymer that is soluble in a polar organic solvent and denatured with an amine compound and made flame resistant with an oxidizing agent, wherein a precursor of the flame-resistant polymer is an acrylonitrile polymer.

12. (Original) The flame-resistant formed product according to Claim 11, being fibrous.

13. (Original) The flame-resistant formed product according to Claim 11, being sheet and having a thickness of 5mm or less.

14-17. (Cancelled)

18. (Currently Amended) A method for manufacturing a flame-resistant formed product comprising the steps of:

forming a flame-resistant polymer-containing solution, wherein a precursor of the flame-resistant polymer is an acrylonitrile polymer comprising a flame-resistant polymer and polar organic solvent which is made flame resistant with an oxidizing agent; and
removing a solvent after said step.

19. (Original) The method for manufacturing a flame-resistant formed product according to Claim 18, wherein said step of forming is the step of forming into being sheet.

20. (Original) The method for manufacturing a flame-resistant formed product according to Claim 18, wherein said step of forming is the step of forming into being fibrous.

21. (Cancelled)

22. (Previously Presented) A method for manufacturing a carbon molded product, comprising carbonizing a flame-resistant formed product obtained by the method according to Claim 18.